PBI- Due April 25th

**Goals:**

1. Establish an international consortium to identify and disseminate best practices in STEM education.

2. Create innovative STEM curriculum through pre-service and in service teacher training in critical thinking and problem solving.

3. Increase use of 21st Century Skills to collaborate with members of the international consortium and local K-12 schools.

4. Increase enrollment and retention of high needs students in undergraduate teacher preparation programs.

**Overall Project Design and Activities:**

1. Establish an international consortium to identify and disseminate best practices in STEM education. Consortium –application and pedagogy
   1. Establish partners with countries outside the US who scored higher than the US on the latest TIMSS study (2007) and PISA Study (2009)- possibilities China, Finland, UK
      1. Dr. Chandler is going to explore this possibility at NSTA
      2. I-tunes university for video repository/also Skype for synchronous work, possibly Tegrity
      3. Quad Blog- with the 4 countries/ match specific classes (technology, early childhood)
      4. Identify best practices- Invite major companies to contribute (Google, Microsoft, NASA, Phifer, Green…) what would best practices look like in their applied area
2. Create innovative STEM curriculum through pre-service and in service teacher training in critical thinking and problem solving.
   1. International Summit
   2. Enhance current STEM conference
   3. Robotics program-
   4. Developing apps-
   5. Teacher training programs- teach teachers hands-on activities that will increase student interest in STEM areas…Perhaps a teacher training camp two week followed by a week- long camp that would be led by the recently trained teachers
   6. Create a classroom that has hands-on activities
3. Increase use of 21st Century Skills to collaborate with members of the international consortium and local K-12 schools. Maybe have this #3 as an objective for 1 or 2. So back to 3 goals .
4. Increase enrollment and retention of high needs students in undergraduate teacher preparation programs.

Mentoring through FTA (Futures Teachers of America)

Career Counseling

Create a cohort- which even lives together an on-going support group

UWA course for entering students who want to be teachers

Use junior/ seniors to mentor Freshmen/sophomore –offer it as a community service course (1 hour) which would be paid for by the grant/ students would have to apply to take the course

Establish a timeline---

Update vita and send to committee

Project design –

#2- Reenay and Laurie- Final draft end of Spring Break ---

#1Susan/Rich

#3 Erica/Andrea/Laurie

3 goals we have 40 pages (need, project design, key personnel, management)

Need 4 pages per section or 4 pages for each goal double spaced.